

Clarke®

POWER



1100W PORTABLE GENERATOR

MODEL NO: G1200

PART NO: 8010110

OPERATION & MAINTENANCE INSTRUCTIONS



LS1111

INTRODUCTION

Thank you for purchasing this CLARKE 1100W Portable Generator.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

PARTS AND SERVICING

For Parts & Servicing, please contact your nearest dealer, or
CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400

PARTS & SERVICE FAX: 020 8558 3622

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com

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GENERAL SAFETY RULES



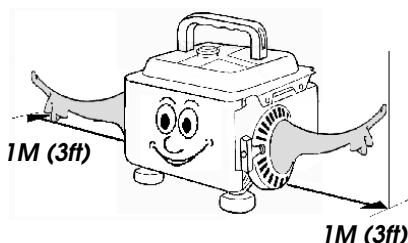
WARNING: EXHAUST FUMES CAN BE EXTREMELY DANGEROUS IF INHALED

WORK AREA

- **Always use in a well ventilated area.** Never use indoors or in a confined space.
- **Always position the exhaust outlet away from people.**
- **Read these safety instructions before using the equipment.**
- **Keep children and animals away from the generator.**

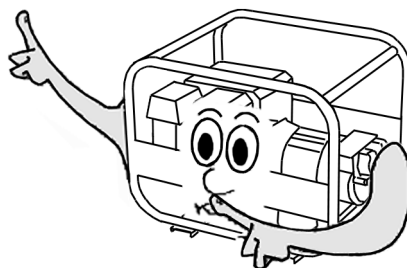
POSITIONING THE GENERATOR

1. **Always** keep the generator at least 1 m (3 ft.) from walls or other equipment, or the engine may overheat.
2. **Always** ensure the generator is on a solid, flat surface.
3. **Always** ensure the surrounding area is free from any material that could burn or be damaged by heat.
4. **Never** move or tilt the generator whilst it is switched on.



FIRE PREVENTION

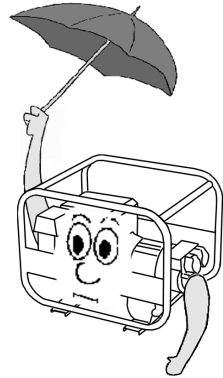
1. **Always** switch the engine OFF when refuelling.
2. **Always** refuel in a well ventilated area.
3. **Never** refuel while smoking or in the vicinity of an open flame.
4. **Never** overfill the tank, fill to the level specified (See "Checking the fuel level" on page 10).



5. **Never** start the engine if there is spilled fuel. Any spillage must be wiped clean and the generator allowed to dry before attempting to start the engine.

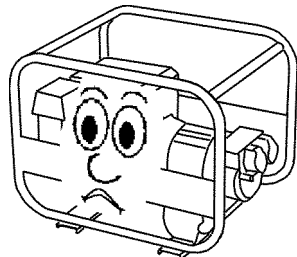
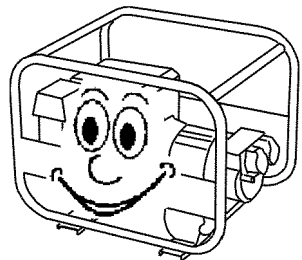
PREVENTION OF ELECTRIC SHOCK

1. **Never** use the generator in wet conditions unless it is well protected/ under cover. Under these conditions, adequate ventilation **MUST** be provided.
2. **Never** operate the generator with wet hands.
3. **Never** use water or any other liquids to clean the generator.
4. Make sure you ground (earth) the generator.



ADDITIONAL SAFETY RULES FOR GENERATORS

1. **Always** ensure the applied load does not exceed the generator rating. Overloading the generator is dangerous and could cause serious damage.
2. **Always** disconnect the generator when carrying out any maintenance.
3. **Always** ensure the generator reaches operating speed before connecting a load.
4. **Never** allow the generator to run out of fuel when a load is connected.
5. **Never** transport the generator with fuel in the tank.
6. **Do Not** connect to a commercial or residential power supply; e.g. ring main.
7. **Never** allow the generator air vents to become blocked.



SAFETY SYMBOLS



Caution - The user should be aware of a general hazard



Dangerous Voltage



Flammable



Hot Surface - Do not touch

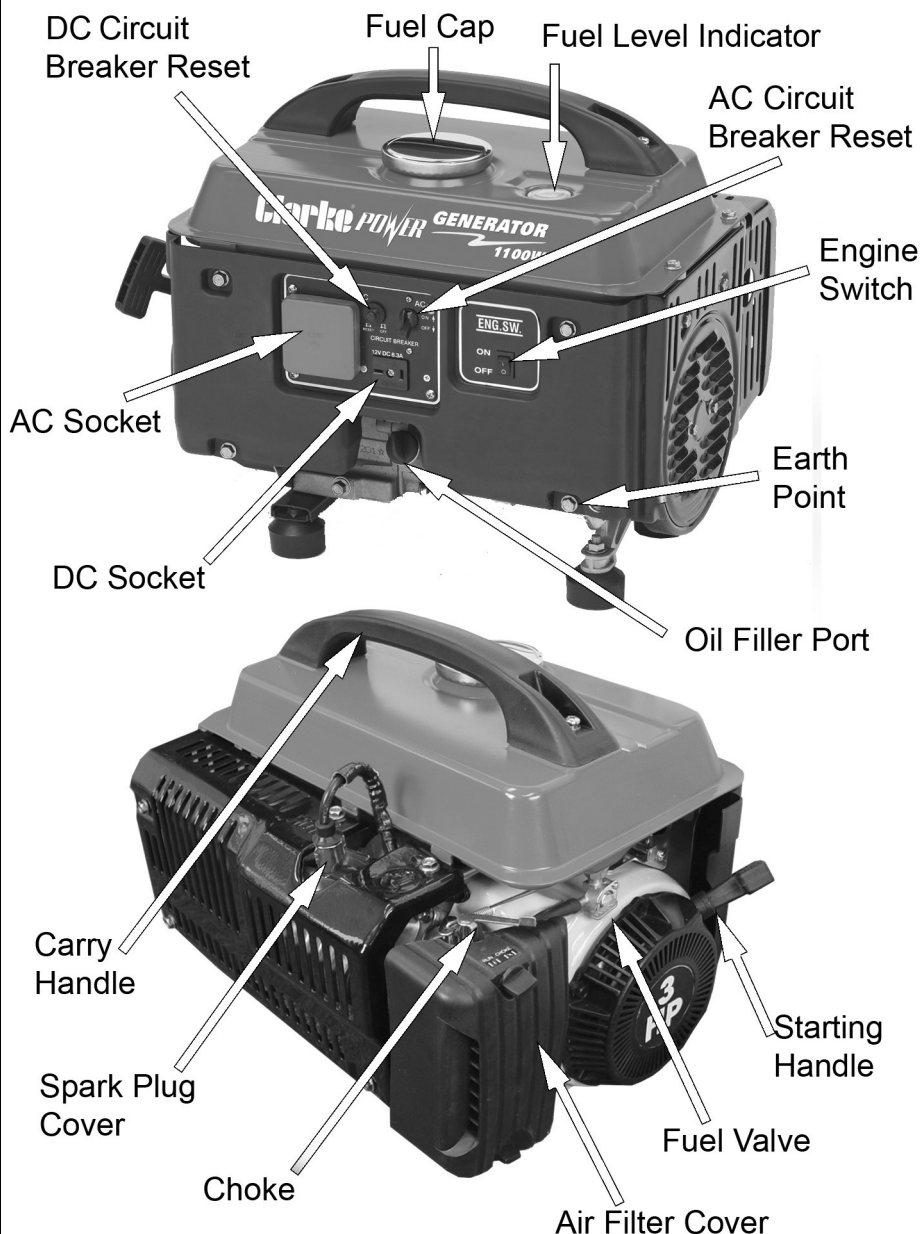


Poisonous fumes - Do not use the generator in an enclosed space.



Read Instruction manual before use.

GENERATOR OVERVIEW



UNPACKING AND ASSEMBLY

Unpack your generator and make sure the following items are present.

1 x Generator	1 x 12V Battery Charging Lead
1 x Spark Plug Box Spanner	1 x Petrol Tank Cap
1 x Phillips No.1 Screwdriver	1 x Handle + Fixings Pack

Should there be anything missing or damaged in transit contact your Clarke dealer immediately.

BEFORE USING THE GENERATOR

IMPORTANT: Generators should ALWAYS be earthed. Make sure you ground (earth) the generator.

Before using your generator check that:

- The generator is in good condition and free from any damage.
- The generator is clean and free from fuel or oil spillage.
- The generator is correctly positioned for use (See page 4).
- The fuel system and connectors are intact and there is no leakage.



WARNING: DO NOT CONNECT TO A BUILDINGS ELECTRICAL SYSTEM UNLESS AN ISOLATION SWITCH HAS BEEN INSTALLED BY A QUALIFIED ELECTRICIAN.

WARNING: CONNECTIONS FOR STANDBY POWER TO A BUILDINGS ELECTRICAL SYSTEM MUST BE MADE BY A QUALIFIED ELECTRICIAN AND MUST COMPLY WITH ALL APPLICABLE LAWS AND ELECTRICAL CODES. IMPROPER CONNECTIONS CAN ALLOW ELECTRICAL CURRENT FROM THE GENERATOR TO BACK FEED INTO THE UTILITY LINES. SUCH BACK FEED MAY ELECTROCUTE UTILITY COMPANY WORKERS OR OTHERS WHO CONTACT THE LINES DURING A POWER OUTAGE, AND WHEN POWER IS RESTORED, THE GENERATOR MAY EXPLODE, BURN, OR CAUSE FIRES IN THE BUILDINGS ELECTRICAL SYSTEMS.

EARTH CONNECTOR

Always connect the generator to an earth point. The earth terminal is shown on the right.



CHECKING THE ENGINE OIL LEVEL

NOTE: Place the generator on a level surface and check the oil level as follows.

1. Turn the oil filler cap anti-clockwise and remove from the oil reservoir, wipe the dipstick with a clean cloth.
2. Insert the dipstick back into the oil filler tube and then remove it again. Do not screw in the oil filler cap/dipstick when doing this.
3. If the oil is below the Min. level on the dipstick, add oil to the oil reservoir. (Maximum 0.35L)
 - Oil Capacity (See "Specifications" on page 19)
 - We recommend the use of SAE30 oil in this generator.
 - Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.
4. Replace the oil filler cap.



CHECKING THE FUEL LEVEL



WARNING: FUEL IS HIGHLY FLAMMABLE AND POISONOUS.

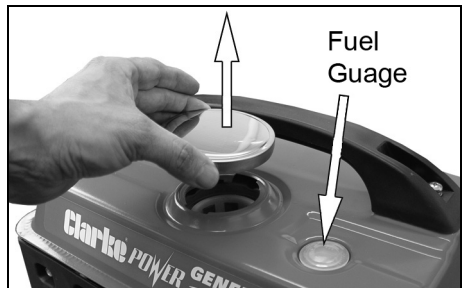
WARNING: SEE “GENERAL SAFETY RULES” ON PAGE 4 AND READ THEM CAREFULLY BEFORE REFUELING.

WARNING: WIPE UP ANY SPILLED FUEL IMMEDIATELY.

WARNING: AFTER REFUELING, MAKE SURE THE FUEL CAP IS TIGHTENED SECURELY.

WARNING: ENSURE THERE IS ADEQUATE FUEL IN THE TANK WHEN USING THE GENERATOR. RUNNING OUT OF FUEL OR STOPPING THE ENGINE SUDDENLY WITH A LOAD CONNECTED COULD CAUSE SERIOUS DAMAGE.

1. Use the Fuel gauge to check the fuel level, if it is low
2. Open the fuel cap.
3. Slowly add fuel to the fuel tank (maximum 5.5 L).
 - Always use a funnel to fill the fuel tank so as to avoid accidental spillage of fuel. If fuel is spilled it must be cleaned up before attempting to start the engine
 - Do not overfill the fuel tank.
4. Replace the fuel cap securely.



RECOMMENDED FUEL

Your generator has been designed to use regular unleaded petrol with an octane number of 90 or higher.

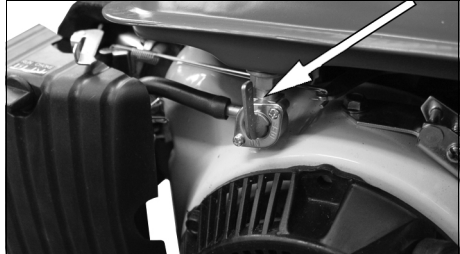
USING YOUR GENERATOR

Make sure there is sufficient fuel in the tank before using the generator.

STARTING THE ENGINE

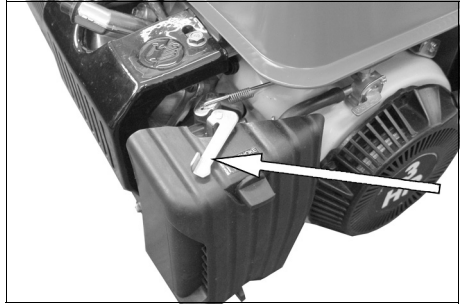
1. Remove all connections from the AC socket on the generator.
2. Turn fuel valve to the ON position.
3. Set the choke lever to the "Choke" position (all the way to the right).
4. Set the engine switch to the "I" (ON) position.
5. Hold the generator handle firmly and pull the starting handle lightly until you start to feel resistance and then pull up sharply to start the engine.

NOTE: You may have to do this more than once.



WARNING: ONCE THE GENERATOR HAS STARTED, RELEASE THE STARTING HANDLE SLOWLY TO AVOID INJURY/DAMAGE AS IT WHIPS BACK.

6. Once the engine has warmed up, return the choke lever to the run position (all the way to the left).



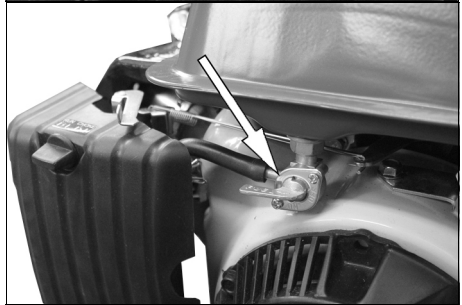
SHUTTING DOWN THE GENERATOR

To stop the generator in an emergency simply set the engine switch to '0' (OFF) position.

1. Turn off and disconnect any electric devices.
2. Set the engine switch to the "0" (OFF) position.



3. Turn the fuel valve to the "OFF" position.



CONNECTING ELECTRICAL DEVICES

The generator can supply both 230V AC and 12V DC

AC POWER

1. Start the engine. See page 11.
2. Make sure the appliance is turned off before connecting it to the generator.
3. Connect the appliance to the generator.



CAUTION: MAKE SURE THAT THE APPLIANCE BEING CONNECTED IS IN GOOD WORKING ORDER, IF IT BEGINS TO ACT ABNORMALLY OR STOPS SUDDENLY, DISCONNECT IT FROM THE GENERATOR.

CAUTION: MAKE SURE THE APPLIANCE DOES NOT EXCEED THE MAXIMUM RATED LOAD FOR THE GENERATOR.

CAUTION: ANY DEVICE WHICH CONTAINS AN INDUCTIVE LOAD E.G. DEVICES THAT CONTAIN A MOTOR MAY REQUIRE MORE CURRENT ON STARTUP.

CAUTION: CARE SHOULD BE TAKEN WHEN CONNECTING SENSITIVE DEVICES SUCH AS LAPTOP COMPUTER AND TELEVISIONS TO THE GENERATOR. A SURGE PROTECTION DEVICE IS RECOMMENDED WHEN CONNECTING THESE TYPES OF APPLIANCE.

AC OVERLOAD PROTECTOR

If the AC overload protector activates, the AC circuit breaker/ reset switch will flip to the OFF position.

1. Disconnect the appliance.
 - Wait for 2-3 minutes.
2. Switch the AC circuit breaker/ reset switch shown on the right to the ON position.

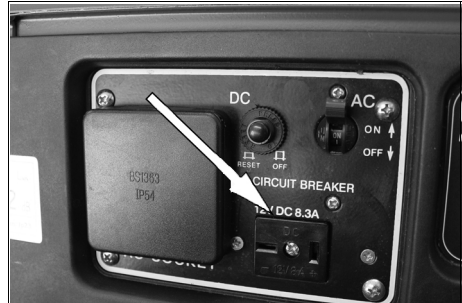


DC POWER (FOR CHARGING CAR BATTERIES ONLY)



WARNING: FOR YOUR SAFETY, PERFORM THE FOLLOWING INSTRUCTIONS IN THE ORDER SHOWN.

1. Start the engine, See page 11.
2. Connect the battery charging leads to the battery.
 - Make sure you clamp the red wire to the positive (+) terminal and the black wire to the negative (-) terminal of the battery.
3. Connect the battery charging leads to the generator.
 - The battery will begin to charge.
4. Monitor the voltage across the battery regularly during charging and disconnect the battery when the voltage reaches 14.4 volts.



CAUTION: WHEN DISCONNECTING THE BATTERY, ALWAYS DISCONNECT THE NEGATIVE LEAD FIRST.

DC OVERLOAD PROTECTOR

If the DC overload protector activates:

1. Disconnect the appliance
 - Wait for 2-3 minutes.
2. Press the DC circuit breaker/reset button shown in this picture.



MAINTENANCE

CHANGING THE ENGINE OIL



CAUTION: PROLONGED EXPOSURE TO USED ENGINE OIL IS DANGEROUS, ALWAYS WASH YOUR HANDS THOROUGHLY AFTER HANDLING USED ENGINE OIL.

1. Remove the left side maintenance panel.

2. Turn the oil filler cap anti-clockwise and remove from the oil tank, wipe the dipstick with a clean cloth.

3. Lift the generator and pour the oil out of the oil reservoir into a suitable container.

4. Fill the oil reservoir to the Max level on the dipstick with fresh oil.

- Oil Capacity (See "Specifications" on page 19.)
- We recommend the use of SAE30 oil in this generator.

5. Replace the oil filler cap and maintenance panel.



ENVIRONMENTAL PROTECTION

One of the most damaging sources of pollution is oil. Do not throw away used engine oil in with your domestic trash or down drains and sinks. Place it in a leak proof container and take it to your local waste disposal site.

Replace the filter back into its original position and replace the air filter cover.

THE SPARK PLUG (EVERY 50 HOURS OF USE)

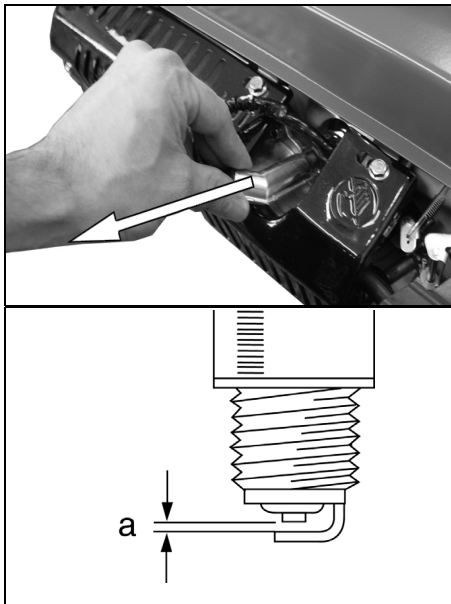


CAUTION: ALLOW THE ENGINE TO COOL BEFORE REMOVING THE SPARK PLUG.

1. Remove the spark plug cap from the spark plug.
2. Use a spark plug spanner (supplied) to remove the spark plug.
3. Check for discoloration and use a wire brush to remove any carbon build up.
4. Check the spark plug gap (a) with a feeler gauge, it should be between 0.6 and 0.7 mm.
 - Adjust if necessary.
5. Check the overall condition of the spark plug and replace if damaged.

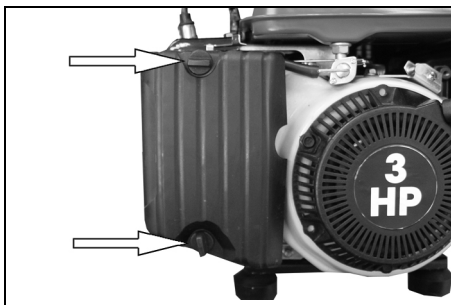
NOTE: Spark plugs are available from Clarke Spare Parts department 020 8988 7400.

6. Reinstall the spark plug and replace the spark plug cap.

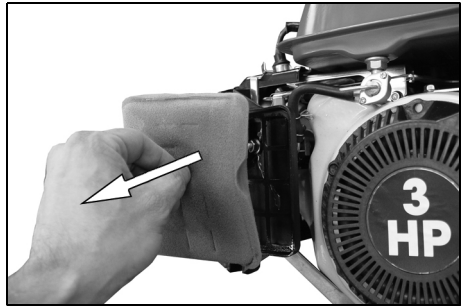


THE AIR FILTER (EVERY 150 HOURS OF USE)

1. Remove the air filter cover screws.
2. Remove the air filter cover.



3. Remove the air filter element.
4. Wash it in a solution of warm water and mild detergent.
5. Rinse thoroughly and leave it to dry. Once it is completely dry immerse the filter in clean engine oil and squeeze the filter to remove excess oil.
 - If the air filter is damaged contact Clarke spare parts department for a replacement.



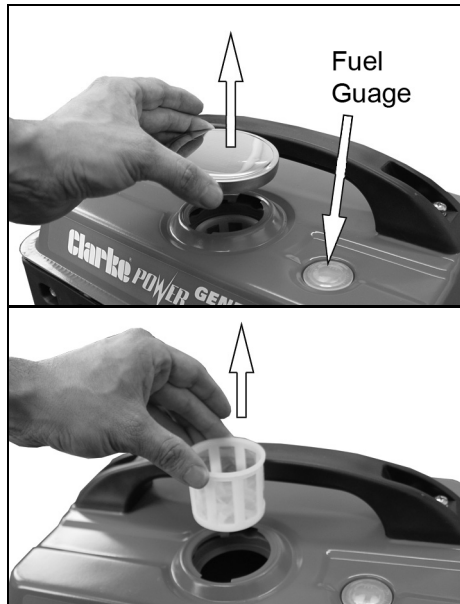
WARNING: DO NOT USE FLAMMABLE SOLVENTS OR PETROL TO CLEAN THE AIR FILTER.

6. Replace the filter into its original position and replace and secure the maintenance panel.

THE FUEL FILTER (EVERY 150 HOURS OF USE)

Just inside the fuel tank is a fuel filter, check this filter periodically and remove any contaminants which may have accumulated.

1. Remove the fuel cap from the generator.
2. Lift out the fuel filter.
3. Clean the filter with solvent.
 - If the filter is damaged contact Clarke spare parts department for a replacement.
4. Replace the filter and fuel cap.



TROUBLESHOOTING

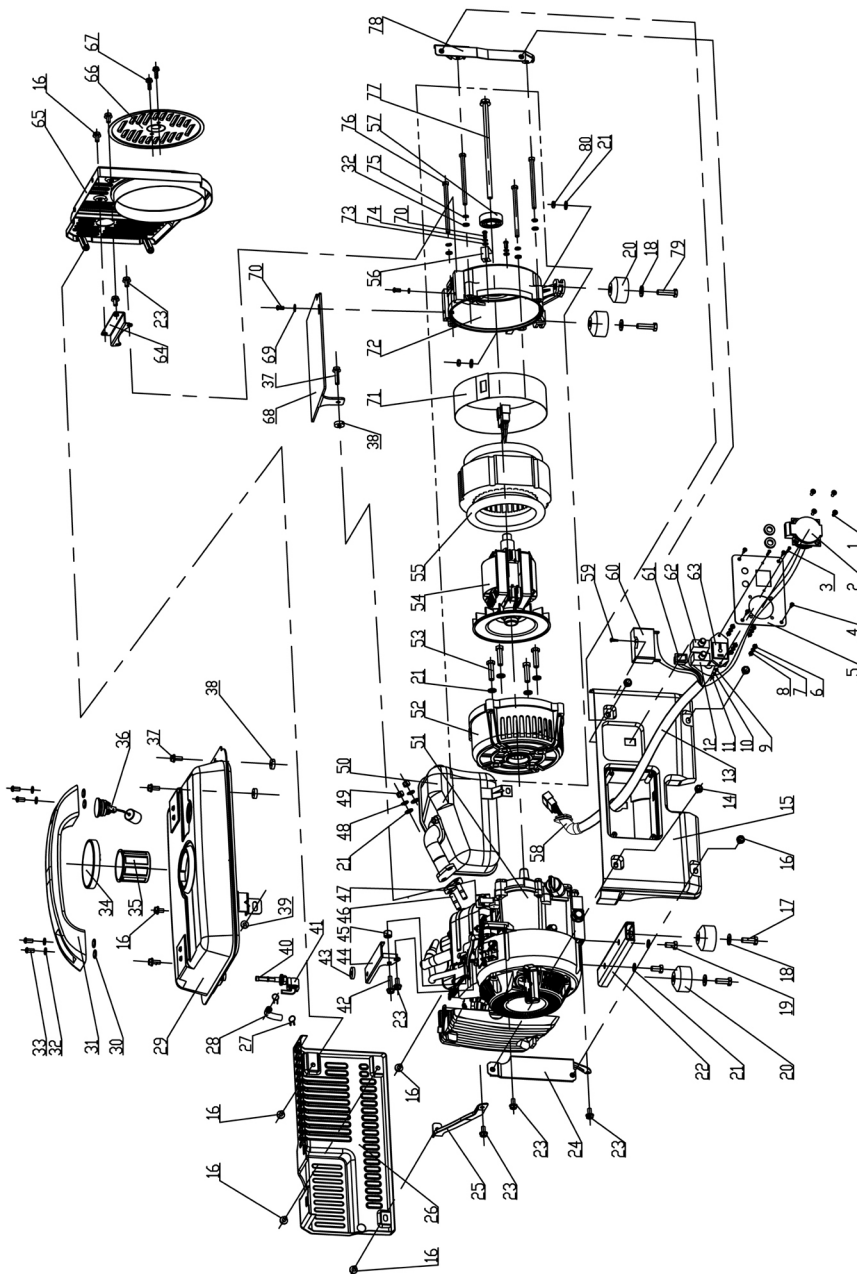
PROBLEM	CAUSE	SOLUTION
The generator fails to start	Engine switch is off.	Set the engine switch to 'on'.
	No fuel.	Add more fuel, see page 10.
	Spark plug is defective.	Change the spark plug. see page 16.
The generator fails to generate electricity	The device you are trying to power is faulty.	Make sure the device you want to power is working properly.
	(AC supply only) The AC Circuit Breaker has activated.	Remove the appliance immediately, wait for a 2-3 minutes and press the AC Circuit Breaker/ reset button. Do not connect any appliance that requires more than 1100W.

If this does not solve your problem, please contact the Clarke service department.

SPECIFICATIONS

		G1200
Engine	Type	Petrol - Over head Valve/ Forced-Air Cooling/single Cylinder/4 stroke
	Displacement (cm ³)	87
	Ignition type	Recoil
	Fuel tank capacity (L)	5.5
	Oil tank capacity (L)	0.35
	Maximum run time (h)	8 hours @ 75% Load
	Guaranteed sound power level (L _{WA} dB)	92
	Sound pressure level (L _{pA} dB)	71.8
Generator	Rated Frequency (Hz)	50
	Rated AC Voltage (V)	230
	Rated Power (W)	1000
	Max. Power (W)	1100
	Rated DC Voltage (V)	12
	Rated DC Current (A)	8.3
Dimensions	Length (mm)	443
	Width (mm)	338
	Height (mm)	332
	Weight (kg)	25

EXPLODED DIAGRAM & PARTS LIST



EXPLODED DIAGRAM & PARTS LIST

NO	DESCRIPTION	PART NO:
1	Screw M4x16	SUG120001
2	AC socket	SUG120002
3	Screw M3x16	SUG120003
4	Screw M4.2x13	SUG120004
5	Control panel	SUG120005
6	Flat washer	SUG120006
7	Spring washer	SUG120007
8	Nut M4	SUG120008
9	Flat washer	SUG120009
10	Spring washer	SUG120010
11	Nut M3	SUG120011
12	AC circuit breaker	SUG120012
13	Wire bind	SUG120013
14	Screw M6x25	SUG120014
15	Control box	SUG120015
16	Screw M6x12	SUG120016
17	Screw M8x25	SUG120017
18	Flat washer	SUG120018
19	Screw M8x16	SUG120019
20	Vibration absorber	SUG120020
21	Flat washer 8	SUG120021
22	Vibration absorber seat	SUG120022
23	Screw M6x12	SUG120023
24	Control box rack	SUG120024
25	Back cover rack	SUG120025
26	Back cover	SUG120026
27	Clip	SUG120027
28	Fuel hose	SUG120028
29	Fuel tank	SUG120029

NO	DESCRIPTION	PART NO:
30	Fuel seal	SUG120030
31	Handle	SUG120031
32	Flat washer 6	SUG120032
33	Screw M6x25	SUG120033
34	Fuel tank cap	SUG120034
35	Fuel hose	SUG120035
36	Fuel meter	SUG120036
37	Screw M6x16	SUG120037
38	Nylon washer	SUG120038
39	Nut M6	SUG120039
40	Fuel cock filter	SUG120040
41	Fuel cock	SUG120041
42	Screw M6x25	SUG120042
43	Rubber washer	SUG120043
44	Fuel tank rack	SUG120044
45	Washer	SUG120045
46	Exhaust bolt	SUG120046
47	Exhaust gasket	SUG120047
48	Spring washer	SUG120048
49	Nut M8	SUG120049
50	Muffler	SUG120050
51	Engine	SUG120051
52	Alternator front frame	SUG120052
53	Screw M8x20	SUG120053
54	Rotor assembly	SUG120054
55	Stator assembly	SUG120055
56	Wire clip	SUG120056
57	Ball bearing 6203	SUG120057

NO	DESCRIPTION	PART NO:
58	Wire bind seat	SUG120058
59	Screw M3.5x13	SUG120059
60	Condenser	SUG120060
61	Engine switch	SUG120061
62	DC circuit breaker	SUG120062
63	DC socket	SUG120063
64	Rack	SUG120064
65	Side cover	SUG120065
66	Alternator rear cover	SUG120066
67	Screw M5x12	SUG120067
68	Heat insulator	SUG120068
69	Flat washer 5	SUG120069
70	Screw M5x10	SUG120070
71	Stator protector	SUG120071
72	Rear frame	SUG120072
73	Flat washer 5	SUG120073
74	Spring washer	SUG120074
75	Spring washer	SUG120075
76	Screw M6x105	SUG120076
77	Alternator center screw	SUG120077
78	Control box rack	SUG120078
79	Screw M8x40	SUG120079
80	Nut M8	SUG120080

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemncall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

Product Description: 1kW Generator (Petrol Powered)
Model number(s): G1200
Serial / batch Number: N/A
Date of Issue: 07/09/2011
(Noise Conformity)
Notified Body: TÜV Rheinland LGA Products GmbH
Tillystr. 2
90431 Nürnberg

Technical Documentation Holder: A.R. Pond
Clarke International
2a Shrubland Road
London E10,7RB
UK

Conformity Assessment Procedure: to 2000/14/EC Annex VI
Manufacturer: Clarke International
Noise Related Value: 1.0 kW
Measured Sound Power Level: 71.8dB
Guaranteed Sound Power Level: 92 dB

DECLARATION OF CONFORMITY



Clarke®
INTERNATIONAL

Hemncill Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

- 2004/108/EC *Electromagnetic Compatibility Directive.*
- 2006/42/EC *Machinery Directive.*
- 2006/95/EC *Low Voltage Equipment Directive.*
- 2000/14/EC *Noise Emissions Directive, (amended by 2005/88/EC).*
- 97/68/EC *The Emission of Gaseous and Particulate Pollutants for Internal Combustion Engines to be Installed in Non-road Mobile Machinery, (amended by 2006/105/EC)*

The following standards have been applied to the product(s):

- EN 60034-22:1997, EN 12601:2001, EN 55012:2002+A1:2005, EN 61000-6-2:2001+A11,
- EN 61000-6-1:2001.

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2007

Signed:

J.A. Clarke
Director

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

GENERATORS

Prime duty or emergency standby for business, home and leisure.

POWER WASHERS

Hot and cold, electric and engine driven - we have what you need

WELDERS

Mig, Arc, Tig and Spot.
From DIY to auto/industrial.

METALWORKING

Drills, grinders and saws for DIY and professional use.

WOODWORKING

Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS

Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS

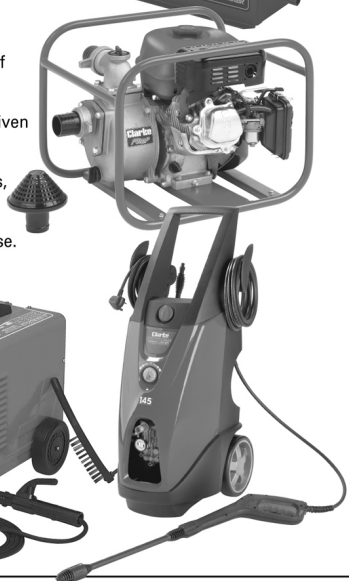
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS

Angle grinders, cordless drill sets, saws and sanders.

STARTERS/CHARGERS

All sizes for car and commercial use.



PARTS & SERVICE: 020 8988 7400

E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

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www.clarkeinternational.com